

#2

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. APPM/6198		Serial No. 10/016,300	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Tzu, et al.		Confirmation No.:	
(Use several sheets if necessary)					Filing Date December 12, 2001		Group 1763	
Examiner — Unknown					RECEIVED APR 15 2002 TC 170U		Unknown	
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
RZ	A1	4,813,846	03/21/89	Helms	414	744.1	04/29/87	
	A2	4,917,556	04/17/90	Stark et al.	414	217	05/26/89	
	A3	4,951,601	08/28/90	Maydan, et al.	118	719	06/23/89	
	A4	5,000,113	03/19/91	Wang et al.	118	723	12/19/86	
	A5	5,028,565	07/02/91	Chang, et al.	437	192	08/25/89	
	A6	5,173,474	12/22/92	Connell, et al.	505	1	03/11/91	
	A7	5,186,718	02/16/93	Tepman et al.	29	25.01	04/15/91	
	A8	5,205,077	04/27/93	Wittstock	51	165 R	08/28/91	
	A9	5,234,561	08/10/93	Randhawa et al.	204	192.38	08/25/88	
	A10	5,259,881	11/09/93	Edwards, et al.	118	719	05/17/91	
	A11	5,286,296	02/15/94	Sato et al.	118	719	01/09/92	
	A12	5,580,380	12/03/96	Liu et al.	117	86	01/30/95	
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	A14	5,667,592	09/16/97	Boitnott et al.	118	719	04/16/96	
	A15	5,674,786	10/07/97	Turner et al.	437	225	06/05/95	
	A16	5,695,564	12/09/97	Imahashi	118	719	08/03/95	
	A17	5,730,801	03/24/98	Tepman et al.	118	719	08/23/94	
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	↓	A26	5,928,389	07/27/99	Jevtic	29	25.01	10/21/96
Examiner <i>Andy Zeng</i>					Date Considered <i>6/10/3</i>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

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(Use several sheets if necessary)					Filing Date December 12, 2001		Group <u>1763</u> Unknown	
Examiner Unknown					APR 11 2002 RECEIVED APR 15 2002 TC 1700			
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Examiner <u>Thy Gungon</u>					Date Considered <u>6/10/3</u>			
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Examiner Unknown								

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TG 1700

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Examiner <u>Unknown</u>								

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TC 1700

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Examiner Paul J. Juiro Date Considered 6/10/03

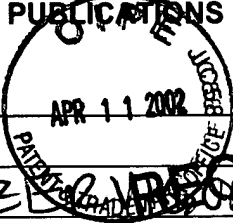
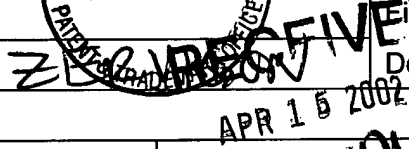
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(Use several sheets if necessary)					Filing Date December 12, 2001		Group <u>1703</u>	
Examiner <u>Unknown</u>					RECEIVED APR 11 2002 O I P E APR 15 2002 TC 1700		Unknown	
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Examiner <u>Prof. Zengjiao</u>					Date Considered <u>6/10/03</u>			
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Examiner Unknown							Unknown	



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	B126	10-188840	07/21/1998	JP	H01J	29/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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	B130	2000-031387	01/28/2000	JP	H01L	27/04	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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	B133	2000-087029	03/28/2000	JP	C09K	11/08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B134	2000-138094	05/16/2000	JP	H05B	33/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B135	2000-218445	08/08/2000	JP	B23P	6/00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B136	2000-319772	11/21/2000	JP	C23C	14/24	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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B145	2001-220287	08/14/2001	JP	C30B	25/02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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Examiner <u>Paul Jensen</u>					Date Considered <u>6/10/3</u>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. APPM/6198	Serial No. 10/016,300
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant Tzu, et al.	Confirmation No.:
(Use several sheets if necessary)		Filing Date December 12, 2001	Group 1763 Unknown
Examiner	Unknown Zervig		
OTHER ART			
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, etc.	
BZ	C1	Ohba, et al., "Thermal Decomposition of Methylhydrazine and Deposition Properties of CVD TiN Thin Films", Conference Proceedings, Advanced Metallization for ULSI Applications in 1993 (1994), pp. 143-149	
	C2	Scheper, et al., "Low-temperature deposition of titanium nitride films from dialkylhydrazine-based precursors", Materials Science in Semiconductor Processing 2 (1999), pp. 149-157	
	C3	Suzuki, et al., "A 0.2- μ m contact filing by 450°C-hydrazine-reduced TiN film with low resistivity", IEDM 92-979, pp. 11.8.1 – 11.8.3	
	C4	Suzuki, et al., "LPCVD-TiN Using Hydrazine and TiCl ₄ ", VMIC Conference (June 8-9, 1993), pp. 418-423	
	C5	IBM Tech. Disc. Bull. "Knowledge-Based Dynamic Scheduler in Distributed Computer Control, (June 1990), pp. 80-84	
	C6	IBM Tech. Disc. Bull. "Multiprocessor and Multitasking Architecture for Tool Control of the Advanced via Inspection Tools" (May 1992), pp. 190-191	
	C7	McGeachin, S., "Synthesis and properties of some β -diketimines derived from acetylacetone, and their metal complexes", Canadian J. of Chemistry, Vol. 46 (1968), pp.1903-1912	
	C8	Solanki, et al., "Atomic Layer deposition of Copper Seed Layers", Electrochemical and Solid State Letters, 3(10) (2000), pp. 479-480	
	C9	NERAC.COM Retro Search: Atomic Layer Deposition of Copper, dated October 11, 2001	
	C10	NERAC.COM Retro Search: Atomic Layer Deposition / Epitaxy Aluminum Oxide Plasma, dated October 2, 2001	
	C11	NERAC Search abstract of "Atomic Layer deposition of Ta and Ti for Interconnect Diffusion Barriers", by Rossnagel, et al., J. Vac. Sci. & Tech., 18(4) (July 2000)	
	C12	Abstracts of articles re atomic layer deposition	
	C13	Abstracts of search results re atomic layer deposition, search dated January 24, 2002	
	C14	Abstracts of articles re atomic layer deposition and atomic layer nucleation	
✓	C15	Abstracts of articles re atomic layer deposition and semiconductors and copper	
Examiner	Zervig		Date Considered 6/10/3
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SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant Tzu, et al.	Confirmation No.:
(Use several sheets if necessary)		Filing Date December 12, 2001	Group 1763 Unknown
Examiner	Unknown		
OTHER ART			
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.	
AP	C16	Abstracts of articles – atomic layer deposition	
	C17	NERAC Search – Atomic Layer Deposition, search dated October 16, 2001	
	C18	Bader, et al., "Integrated Processing Equipment", Solid State Technology, Cowan Pub., Vol. 33, No. 5 (May 1, 1990), pp. 149-154	
	C19	Choi, et al., "The effect of annealing on resistivity of low pressure chemical vapor deposited titanium diboride", J. Appl. Phys. 69(11) (June 1, 1991), pp. 7853-7861	
	C20	Choi, et al., "Stability of TiB ₂ as a Diffusion Barrier on Silicon", J. Electrochem. Soc. 138(10) (October 1991), pp. 3062-3067	
	C21	"Cluster Tools for Fabrication of Advanced devices" Jap. J. of Applied Physics, Extended Abstracts, 22 nd Conference Solid State Devices and Materials (1990), pp. 849 – 852 XP000178141 (ARTICLE ON ORDER – TO BE PROVIDED)	
	C22	"Applications of Integrated processing", Solid State Technology, US, Cowan Pub., Vol 37, No. 12 (December 1, 1994), pp. 45-47	
	C23	Kitigawa, et al., "Hydrogen-mediated low temperature epitaxy of Si in plasma-enhanced chemical vapor deposition", Applied Surface Science (2000), pp. 30-34 (ARTICLE ON ORDER – TO BE PROVIDED)	
✓	C24	Lee, et al., "Pulsed nucleation for ultra-high aspect ratio tungsten plugfill", Novellus Systems, Inc. (2001), pp. 1-2 (ARTICLE ON ORDER – TO BE PROVIDED)	
Examiner	Date Considered		6/10/03
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